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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/986,764	11/09/2001	Gregory S. Rawlins	1744.1330000	5623
26111 7	7590 02/09/2004		EXAM	INER
STERNE, KESSLER, GOLDSTEIN & FOX PLLC			VO, DON NGUYEN	
1100 NEW YORK AVENUE, N.W. WASHINGTON, DC 20005			ART UNIT	PAPER NUMBER
			2631 DATE MAILED: 02/09/2004	/ 4

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)			
		09/986,764	RAWLINS ET AL.			
		Examiner	Art Unit			
		DON N VO	2631			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
THE - Exte after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply y within the statutory minimum of thirty (30 will apply and will expire SIX (6) MONTHS, cause the application to become ABAND	be timely filed) days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).			
Status						
1)[🛛	Responsive to communication(s) filed on 19 N	ovember 2003.				
2a)⊠	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)⊠ 6)⊠ 7)⊠	Claim(s) 1,2,4-17,26-29,31-40,49 and 51-60 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 53-60 is/are allowed. Claim(s) 1,2,4-8,13-17,26-29,31-34,39,40,49,51 and 52 is/are rejected. Claim(s) 9-12 and 35-38 is/are objected to. Claim(s) are subject to restriction and/or election requirement.					
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10)[10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Appli rity documents have been rec u (PCT Rule 17.2(a)).	ication No reived in this National Stage			
Attachmen	at(s)		*•			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
3) X Infon	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 10 & 11.	_	ail Date nal Patent Application (PTO-152)			

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DETAILED ACTION

Acknowledgment

1. This Office Action is responsive to the Amendment filed on 11/19/2003.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1,2, 4-8, 13-17, 26-29, 31-34, 39, 40, 49, 51 and 52 are rejected under 35 U.S.C. 102(b) as being anticipated by Pace et al (5,471,665).

As shown in figures 1, 2, 5-7, and 9-11, Pace teaches a wireless communication system comprising feedback loop for reducing DC offset having summing node (130) and integrator (120) wherein the frequency response of the integrator is varied based on the control signal (124).

Allowable Subject Matter

- 4. Claims 53-60 are allowed.
- 5. Claims 9-12 and 35-38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

6. Applicant's arguments filed on 11/19/2003 have been fully considered but they are not persuasive.

Applicant traverses to the rejection by arquing that the reference Pace et al fails to teach the integrator having a time constant that is variable according to at one control signal to vary a frequency response of the integrator as now amended in claims 1, 26 and 49. The examiner respectfully disagrees. As inherently known, the time constant of the basic integrator is based on the values of its impedance and capacitance and the frequency response of the integrator is affected by the time constant. That is, if either the values of the impedance or capacitance of the integrator is changed, its time constant as well as the frequency response will also be changed. Pace, as shown in figure 2, teaches the integrator having the transconductance amplifier (18) that is controlled by the gain control signal (124) and the output of the transconductance amplifier (18) is used to charge the floating capacitor (16). The significant of this is that the capacitance of the capacitor (16) is varied while being charged, regardless of being charged up of down. See column 4, lines 6-29. Because of this varying the capacitance, the time constant as well as the frequency response of the integrator is also varied.

Based on the above rationale, it is believed that the limitations of claims 1,2, 4-8, 13-17, 26-29, 31-34, 39, 40, 49, 51 and 52 are met by Pace et al and therefore, the rejection is still maintained.

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Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to DON N VO whose telephone number is (703) 305-4885. The examiner can normally be reached on 8:30AM-5:00PM, Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MOHAMMAD GHAYOUR can be reached on (703) 306-3034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DON N VO Primary Examiner

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